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CIA 638535

ATTC F-TB-9224/v

Sci - Electronics

Nov 58

76,605

Polyak, N. A.

SHORT-CIRCUITS, ASYNCHRONOUS OPERATION
AND RE-SYNCHRONIZATION OF TURBO-GENERA-
TORS (Korotkiye Zamykaniya, Asinkhronnyy Khod i
Resinkhronizatsiya Turbogeneratorov). 17 Feb 60
[15]p. (1 fig. omitted) Trafford Park trans. 2559;
M 1562.

Order from LC or SLA m\$2.40, ph\$3.30 60-23004

Trans. of "Elektrichestvo (USSR) 1958, no. 11,
p. 18-24.

Another translation is available from LC or SLA
m\$2.40, ph\$3.30 as 60-1575", CE Trans-1420 [1960]
[12]p.

Also available from PP \$14.00 (1959, v. 4, p. 463-624)

The dynamic stability of parallel turbogenerators when
short circuits occur is always higher than that calcu-
lated by normal standard means. The greatest differ-
ence occurs when serious short circuits occur at point
which are, electrically, fairly near the terminals of
(Engineering--Electrical, TT, v. 5, no. 5) (over)

60-23004

1. Turbines--Operation
2. Generators--Operation
- I. Polyak, N. A.
- II. AEI TP/T-2559
- III. DSIR LLU M 1562
- IV. Associated Electrical
Industries, Ltd.
(Gr. Brit.)

Office of Technical Services

the turbogenerators. The basic cause is that, in standard calculations, the electromagnetic torques on the turbogenerator shafts are not taken into account. These are caused by the aperiodic component of the stator current, which occurs at the moment of a short circuit or other abrupt change in conditions. After turbogenerators of a thermal station have fallen out of synchronism, resynchronization, to bring them into line with the other generators of the stations in the system, can be carried out in conditions like those examined here, even when the total power of the turbogenerators that have fallen out of step somewhat exceeds the power which, in a protracted period, can be transmitted over the remaining operating lines.
(Author)

PB- 60-23004

Swelling and Partial Molar Volumes of Salt
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P. A. Karpov, 3 pp.
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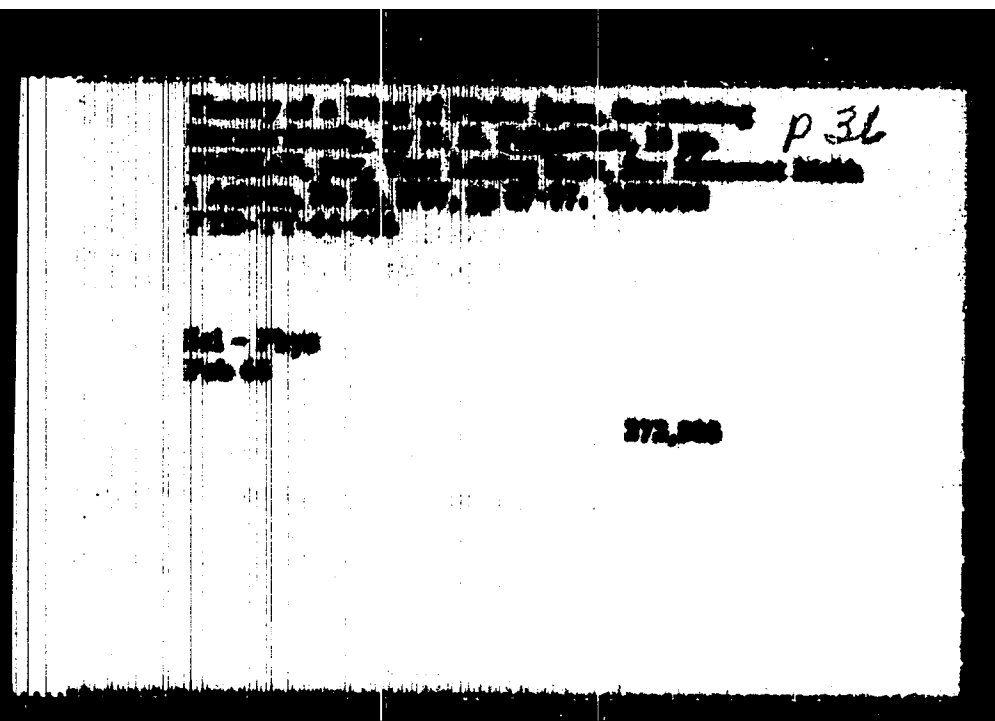
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AUTHOR: Polyakov

LANGUAGE: RUSSIAN

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DESCRIPTORS: *Polysaccharides, *Cellulose esters, Synthesis, *Amino acids, Glycine, Alanine, Alcohols, Methanols, Phenols, Formamides, Carbohydrates.

A method has been developed for synthesizing cellulose esters with α -amino acids by substituting the sulfonic acid groups in the corresponding cellulose ethers. The effect of the nature of the solvent on the direction of the substitution reaction has been established. In dimethyl- (Chemistry--Organic, TT, v. 9, no. 4) (over)

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